TABLE 9-2

Total R&D paid to others, for companies with 1-4 employees, by selected industry and type of R&D performer: 2017 (Thousands of U.S. dollars)

Industry	NAICS code	Total		R&D paid for by the company and performed by another U.S. business		university or college		R&D paid for by the company and performed by other organizations	
Industry									
All selected industries	31–33, 42, 51, 5413, 5415, 5417	514,204		285,637		67,082		86,974	
Manufacturing industries	31-33	66,159		49,176		7,571		6,145	-
Food, beverage, and tobacco products	311-12	777		777		0		0	-
Textile, apparel, and leather products	313-16	112	r	56	r	0		56	r
Wood products	321	0		0		0		0	-
Paper	322	0		0		0		0	
Printing and related support activities	323	0		0		0		0	_
Petroleum and coal products	324	0		0		0		0	_
Pharmaceuticals and medicines	3254	10,779	r	8,776	r	808		780	
Chemicals, excluding pharmaceuticals	325 (excluding 3254)	4,949		2,910		1,566	r	178	r
Plastics and rubber products	326	41		S		0		S	
Nonmetallic mineral products	327	0		0		0		0	
Primary metals	331	270	r	0		0		270	r
Fabricated metal products	332	136		S		0		134	
Machinery	333	638		474		0		0	
Computer and electronic products	334	35,331		28,114	r	2,935	r	3,727	
Electrical equipment, appliances, and components	335	4,790		1,912		886	r	208	r
Transportation equipment	336	591	r	78		0		483	r
Furniture and related products	337	0		0		0		0	
Miscellaneous manufacturing	339	7,745		6,050	r	1,376	r	295	
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	448,044		236,461		59,510		80,829	
Wholesale trade	42	6,885	r	2,146		4,329	r	409	r
Information	51	29,507		19,677		85	r	5,782	r
Software publishers	5112	17,796		12,329		60	r	4,102	r
Information, excluding software publishers	51 (excluding 5112)	11,711		7,348	r	25	r	1,680	
Architectural, engineering, and related services	5413	14,188		10,721		970		1,568	
Computer systems design and related services	5415	101,087		33,820		2,845	r	32,640	
Scientific research and development services	5417	296,377		170,097		51,282		40,430	

r = relative standard error > 50%; S = data withheld to avoid disclosing operations of individual companies.

NAICS = 2017 North American Industry Classification System.

Note(s)

Detail may not add to total because of rounding. Industry classification is based on the dominant establishment payroll. Statistics are representative of companies located in the United States that performed or funded R&D.

Source(s):

National Center for Science and Engineering Statistics and U.S. Census Bureau, Annual Business Survey, 2017.